

MILITARY SPECIFICATION SHEET

CONNECTORS, FIBER OPTIC, CIRCULAR, PLUG AND RECEPTACLE STYLE,
 MULTIPLE REMOVABLE TERMINI, RECEPTACLE, SCREW THREADS, WALL
 MOUNTING, WITH 90° STRAIN RELIEF, ENVIRONMENT RESISTING

This specification is approved for use by all Depart-
 ments and Agencies of the Department of Defense.

The requirements for acquiring fiber optic connectors described herein
 shall consist of this specification and the latest issue of MIL-C-28876.

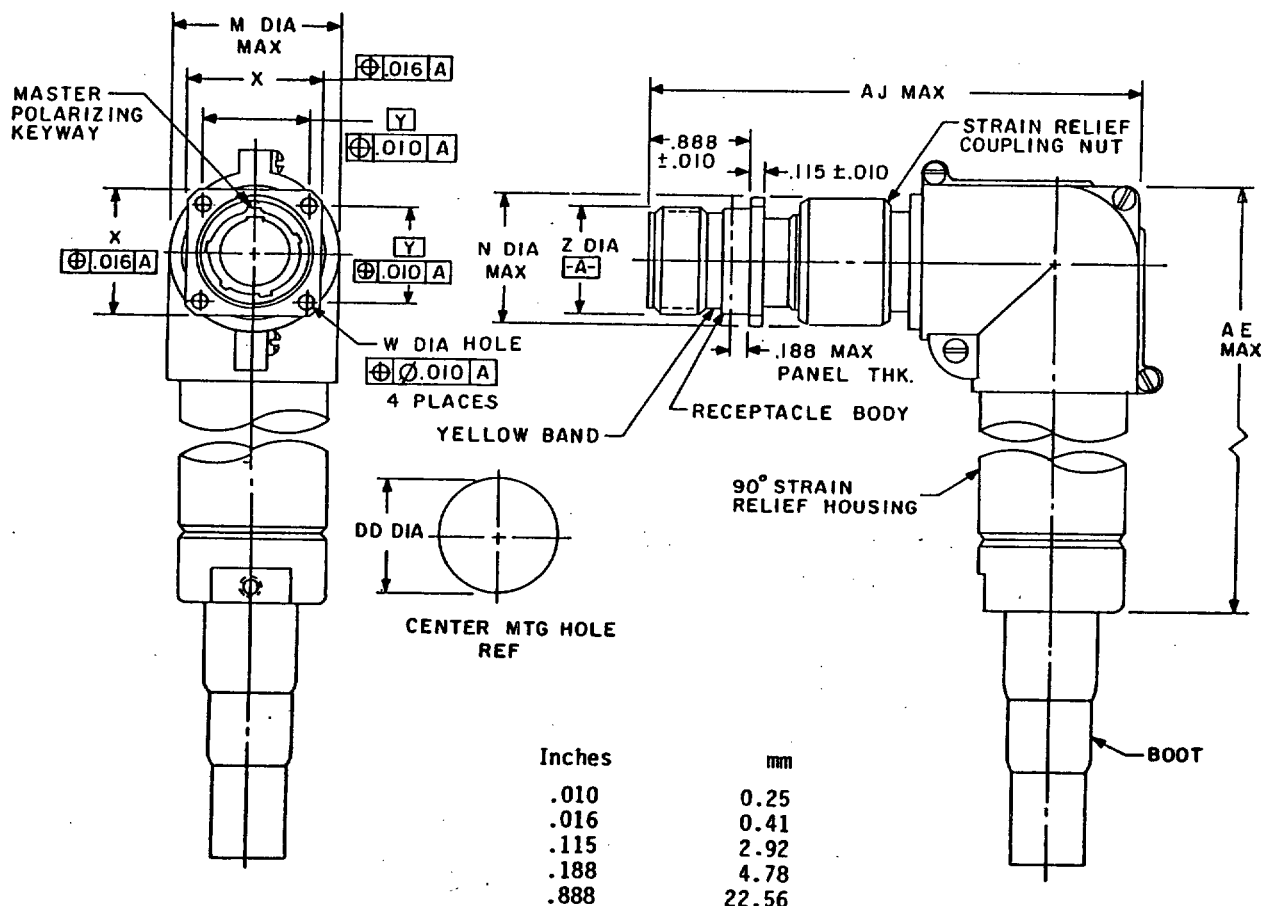


FIGURE 1. Receptacle connector with 90° backshell strain relief.

Shell size	N dia max	W	X	Y	Z dia max	M dia max	AE max	AJ max	DD dia ref	For insert arrangement MIL-STD-2163 Figure	Color band EIA RS5359
11	.960 (24.38)	.130 (3.30)	1.043 (26.49)	.750 (19.05)	.750 (19.05)	1.050 (26.67)	4.250 (107.95)	4.250 (107.95)	.812 (20.62)	1	Yellow
		.115 (2.92)	1.001 (25.43)								
13	1.085 (27.55)	.130 (3.30)	1.158 (29.41)	.843 (21.41)	.875 (22.22)	1.050 (26.67)	4.250 (107.95)	4.250 (107.95)	.937 (23.80)	2	Yellow
		.115 (2.92)	1.116 (28.35)								
15	1.255 (31.88)	.130 (3.30)	1.278 (32.46)	.968 (24.59)	1.062 (26.97)	1.550 (39.37)	4.500 (114.30)	4.500 (114.30)	1.124 (28.55)	3	Yellow
		.115 (2.92)	1.236 (31.39)								

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Dimensions apply after plating.
4. Metric equivalents (mm) are in parentheses.

FIGURE 1. Receptacle connector with 90° backshell strain relief - Continued.

REQUIREMENTS:

Dimensions and configurations: See figure 1 and MIL-C-28876, figures 4 and 8.

Mass: 14.5 ounces maximum.

Insert arrangement: See MIL-STD-2163 for desired shell size.

Termini: Style P (pin) or S (socket). See MIL-C-28876/16 and MIL-C-28876/17. (For dummy terminus see MIL-C-28876/18.)

Shell polarization: 1 through 6 keyway positions. See MIL-C-28876, figure 5.

Marking:

Part number: Marked on flange of receptacle (see table I).

	M28876/4	B	1	2	P	1	
Basic part number							Keying position number
Shell size designator letter							Terminus style letter
Insert arrangement number							Backshell dash number

TABLE I. Part number designators.

Shell size	Designator	Insert arrangement number	Termini	Key position	Cable outer diameter, backshell dash number		
					1	2	3
11	A	1	P or S	1, 2, 3, 4, 5, or 6	.250 (6.35) .240 (6.09)		
13	B	1	P or S	1, 2, 3, 4, 5, or 6	.300 (7.62) .290 (7.36)		
15	C	1 or 2	P or S	1, 2, 3, 4, 5, or 6	.515 (13.08) .495 (12.57)	.260 (6.66) .235 (6.02)	.385 (9.78) .365 (9.27)

Color bands: See EIA RS359.

Mating counterpart: Plug connectors specified in MIL-C-28876/6 through MIL-C-28876/9.

Installation and removal tools: As specified in MIL-I-81969/46 through MIL-I-81969/49 and MIL-T-83523/5 through MIL-T-83523/8.

Quality conformance and periodic inspections: The following cables shall be used for quality conformance and periodic inspections:

<u>Shell size</u>	<u>Cables</u>
A	Siecor part number 277-R, 2-channel, 50 micron core, 125 clad, or equal.
B	Siecor part number 477-R, 4-channel, 100 micron core, 140 clad, or equal.
C	Belden part number 229626, 8-channel, 100 micron core, 140 clad, or equal.

For quality conformance and periodic inspections, dummy termini shall be used in all unused cavities.

Patent notice: The Government does not have a royalty-free license under the following patents for the benefit of manufacturers of the item, either for the Government or for use in equipment to be delivered to the Government:

<u>Patent application no.</u>	<u>Patent no.</u>
US (65,032)	US 4,330,955
US (260,660)	
US (376,865)	
US (403,446)	

Revision letters are not used to denote changes due to the extensiveness of the changes.

Custodians:

Army - CR
Navy - EC
Air Force - 85

Review activities:

Army - MI
Navy - AS, MC, SH
Air Force - 11, 17, 19, 80, 90, 99
DLA - ES

User activities:

Navy - OS, YD
Air Force - 13, 14

Preparing activity:

Navy - EC

Agent:

DLA - ES

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